

Serial No.: 10/628,320
Response to Office Action mailed April 24, 2006

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph 2) of page 13 with the following amended paragraph:

For formulations requiring the coarse fill method of dispensing for any component, HMI 28 29 would signal supply valve 13 to open entirely and would signal dispense valve 23 to open entirely and would signal detached drum pump 2 to start. Detached drum pump 2 would move the component from alternate material reservoir 1 through supply tube 12, through supply valve 13, through dispense tube connecting plate 15A, into dispense cylinder 19, through dispense valve 23, through dispense tube 24, through dispense valve housing 25 and, in having developed enough pressure throughout the embodiments described above, would cause proportional dispense valve 26 to open rollingly and material would pass through proportional dispense valve 26, would pass through material sensor 26A (a device used to detect the presence of a solid volume of material, which may be of video or beam-type) and into receiving container 27 which sits upon scale 28.

Please replace paragraph 10) of page 17 with the following amended paragraph:

Upon reaching the target weight required of the component for the formulation, scale 29 28 would send a signal to HMI 29 which would cause the piston linear actuator assembly to stop the upwards movement of piston drive plate 21. HMI 29 would command piston gripper 20 to positively affix itself to piston body 18. HMI 29 would command piston linear actuator 22 to reverse its direction and move downwards a defined distance. The defined distance of downward movement of piston drive plate 21 is equal to the distance required to decrease the amount of pressure created throughout the embodiments due to the process of dispensing which would result in enough reduction in pressure to cause proportional dispense valve 26 to close.

Please replace paragraph 2) of page 19 with the following amended paragraph:

For formulations requiring the small volume method of dispensing for any formulation, HMI 28 29 would signal supply valve 13 to open entirely and would signal dispense valve 23 to open entirely and would signal bag linear actuator 3 to start. Bag linear actuator 3 would move bag

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drive plate 4 upwards to locate and come into positive contact with bag plate 5 which in turn would press upwards and would move its component from material bag 3 through supply tube 12, through supply valve 13, through dispense tube connecting plate 15A, into dispense cylinder 19, through dispense valve 23, through dispense tube 24, through dispense valve housing 25 and, in having developed enough pressure throughout the embodiments described above, would cause proportional dispense valve 26 to open rollingly and material would pass through proportional dispense valve 26, would pass through material sensor 26A (a device used to detect the presence of a solid volume of material, which may be of video or beam-type) and into receiving container 27 which sits upon scale 28.